TABLE OF CONTENTS

Page

SPECIFICATIONS. 1

WARRANTY. 2

INSTALLATION. 3

- TVA 142 Mixer Module 3
- TVA 131 Output Module. 5

THEORY OF OPERATION: TVA 131. 7

- Program Operation. 7
- Cue Operation. 8
- Monitor Operation. 9

THEORY OF OPERATION: TVA 142. 10

- Preamplifier Section 10
- Output Bus Assignment Circuitry. 11
- Line Driver. 13
- Peak Flashers. 14

ADJUSTMENTS 15

- TVA 142. 15
- TVA 131. 17

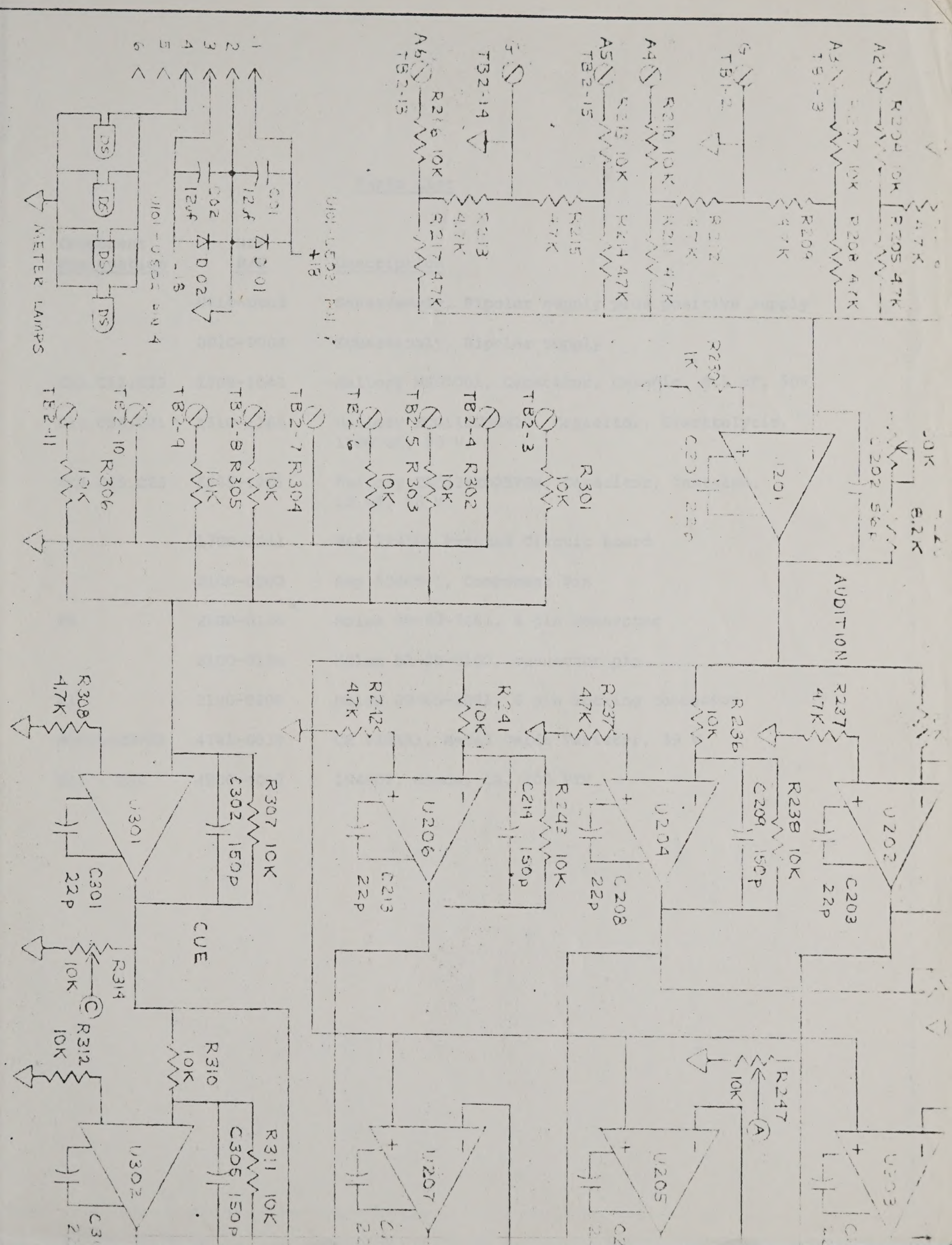
FIGURE 1 -- Switch Location, TVA 142. 20

FIGURE 2 -- Control Location TVA 131. 21

PARTS LIST TVA 131. 22

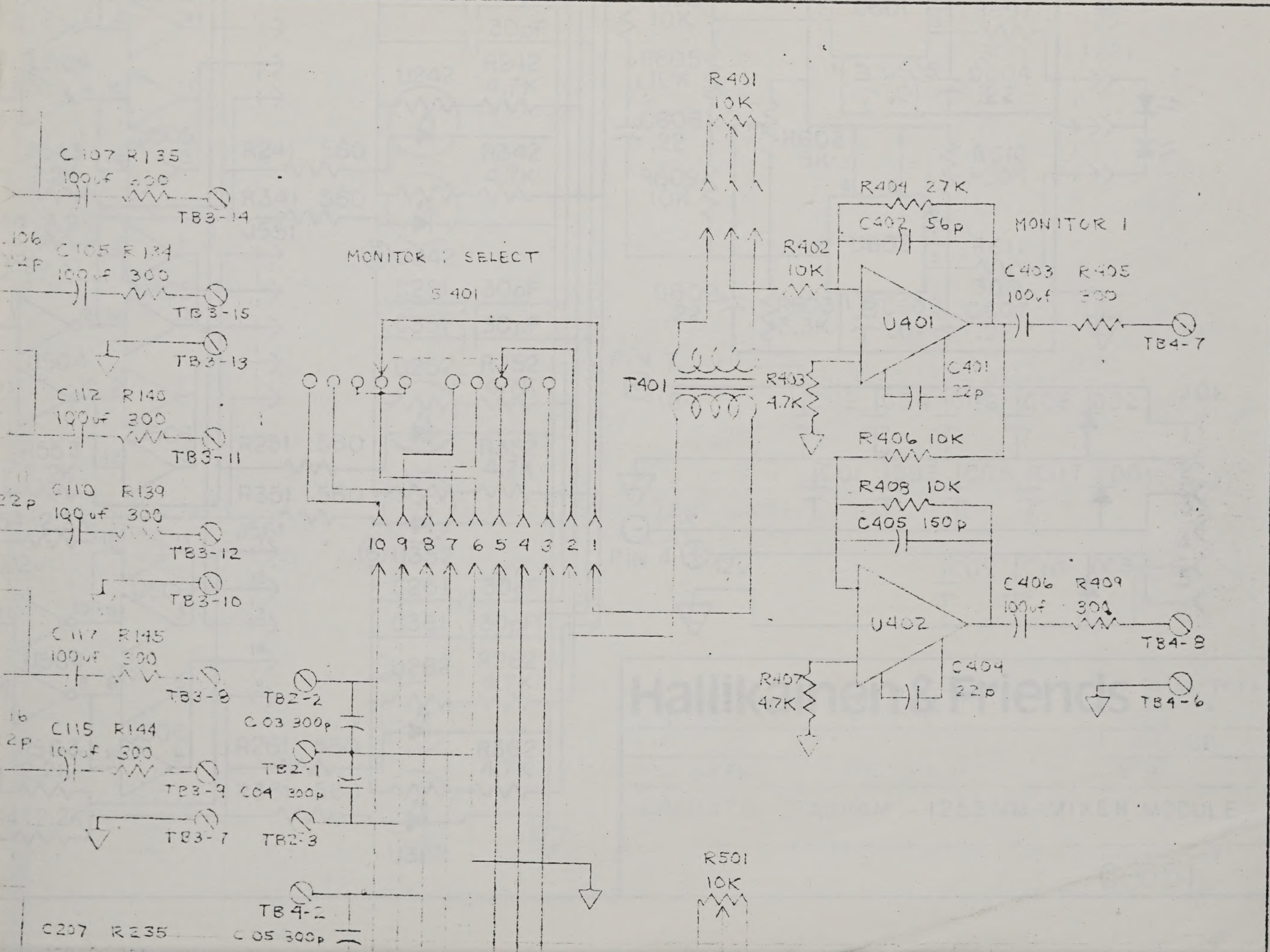
PARTS LIST TVA 142. 34

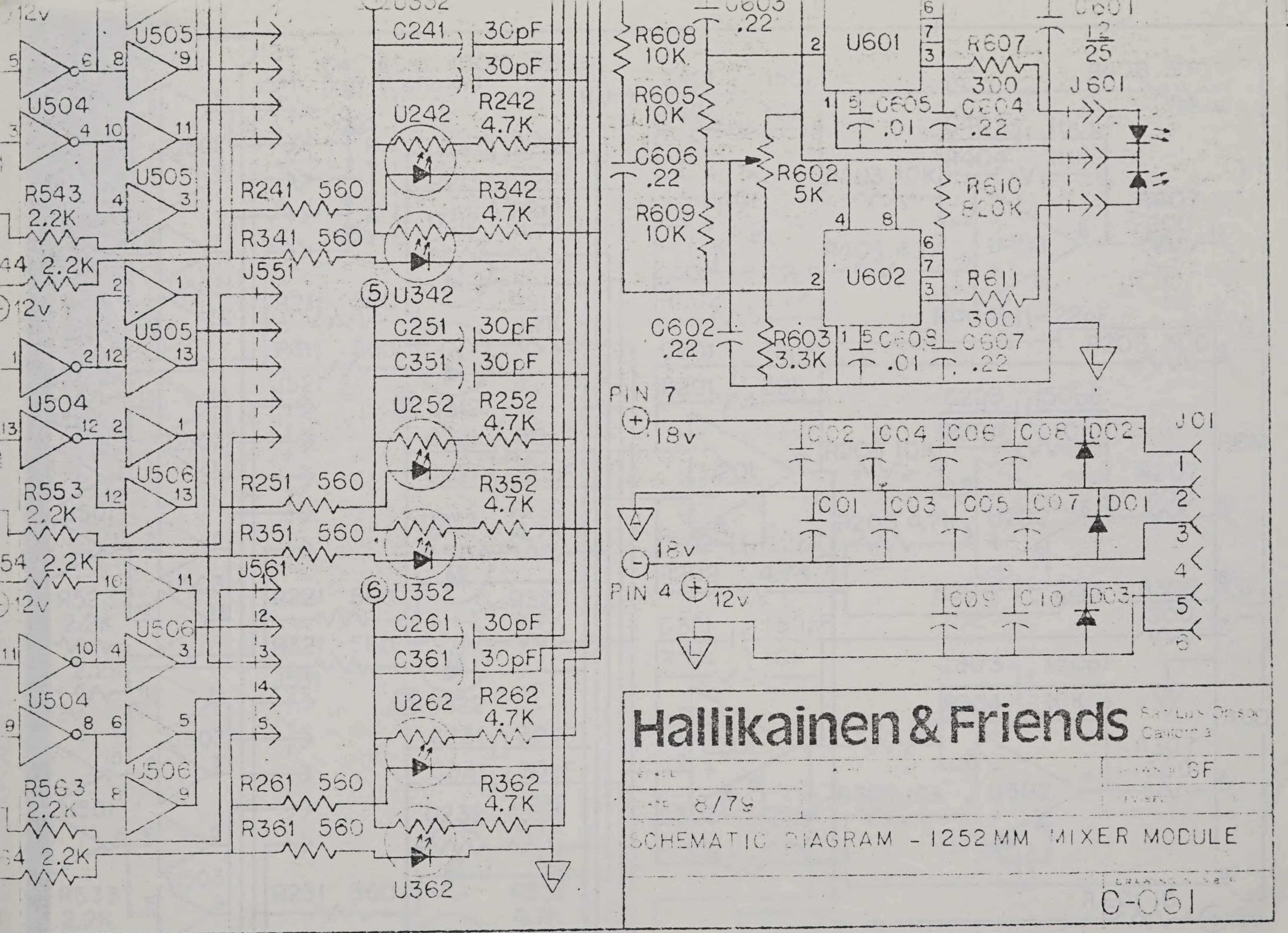
UNIVERSAL POWER SUPPLY. 51


A2
R204 10K
R205 4.7K
A3
TB1-3
R207 10K
R208 4.7K
R209 4.7K
G
TB1-2
A4
R210 10K
R211 4.7K
R212 4.7K
A5
TB2-15
R213 10K
R214 4.7K
R215 4.7K
G
TB2-14
A6
TB2-13
R216 10K
R217 4.7K
R218 4.7K
R230 1K
C201 22P
C202 56P
10K
6.2K
U201
AUDITION
1
2
3
4
5
6
C01
C02
12uf
D01
D02
+18
-18
U101-U502 PIN 7
U101-U502 PIN 4
DS
METER LAMPS
TB2-3
R301 10K
TB2-4
R302 10K
TB2-5
R303 10K
TB2-6
TB2-7
R304 10K
TB2-8
R305 10K
TB2-9
TB2-10
R306 10K
TB2-11
R237 4.7K
U202
C203 22P
R238 10K
C209 150P
R236 10K
U204
C208 22P
R243 10K
C214 150P
R241 10K
R242 4.7K
U206
C213 22P
R307 10K
C302 150P
U301
C301 22P
R308 4.7K
CUE
R314 10K
C
R310 10K
R311 10K
C305 150P
R312 10K
U302
R247 10K
A
U203
U205
U207

Parts List

Component Designation	H&F P/N	Description
	0010-0003	Subassembly, Bipolar supply plus positive supply
	0010-0004	Subassembly, Bipolar supply
C12,C15,C22	1508-1042	Mallory MAG5001, Capacitor, Ceramic, 0.1 uF, 50V
C11,C14,C21	1510-1180	Mallory TCG112U05N2C, Capacitor, Electrolytic, 1100 uF, 50 V.
C13,C16,C23	1535-1261	Mallory TAC126K025P04, Capacitor, Tantalum, 12 uF, 25 V.
	1706-1241	H&F 1241PS Printed Circuit Board
	2100-0002	Amp 50865-1, Component Pin
P2	2100-0126	Molex 09-50-7061, 6 pin connector
	2100-0158	Molex 08-50-0108, connector pin
P1	2100-0206	Molex 09-65-1061, 6 pin locking connector
MOV11-MOV22	4741-0039	GE V39ZA1, Metal Oxide Varistor, 39 V
D11 - D22	4800-4002	1N4002, diode, 1A, 100 PIV


C107 R135
100uf 300
TB3-14
106
22P
C105 R134
100uf 300
TB3-15
TB3-13
C112 R140
100uf 300
TB3-11
22p
C110 R139
100uf 300
TB3-12
TB3-10
C117 R145
100uf 300
TB3-8
C115 R144
100uf 300
TB3-9
TB3-7
C207 R235
MONITOR : SELECT
S401
10 9 8 7 6 5 4 3 2 1
TB2-2
C03 300p
TB2-1
C04 300p
TB2-3
TB4-2
C05 300p
R401
10K
T401
R403
4.7K
R402
10K
R404 27K
C402 56p
MONITOR 1
U401
C401
22p
C403 R405
100uf 300
TB4-7
R406 10K
R408 10K
C405 150p
U402
C404
22p
R407
4.7K
C406 R409
100uf 301
TB4-8
TB4-6
R501
10K



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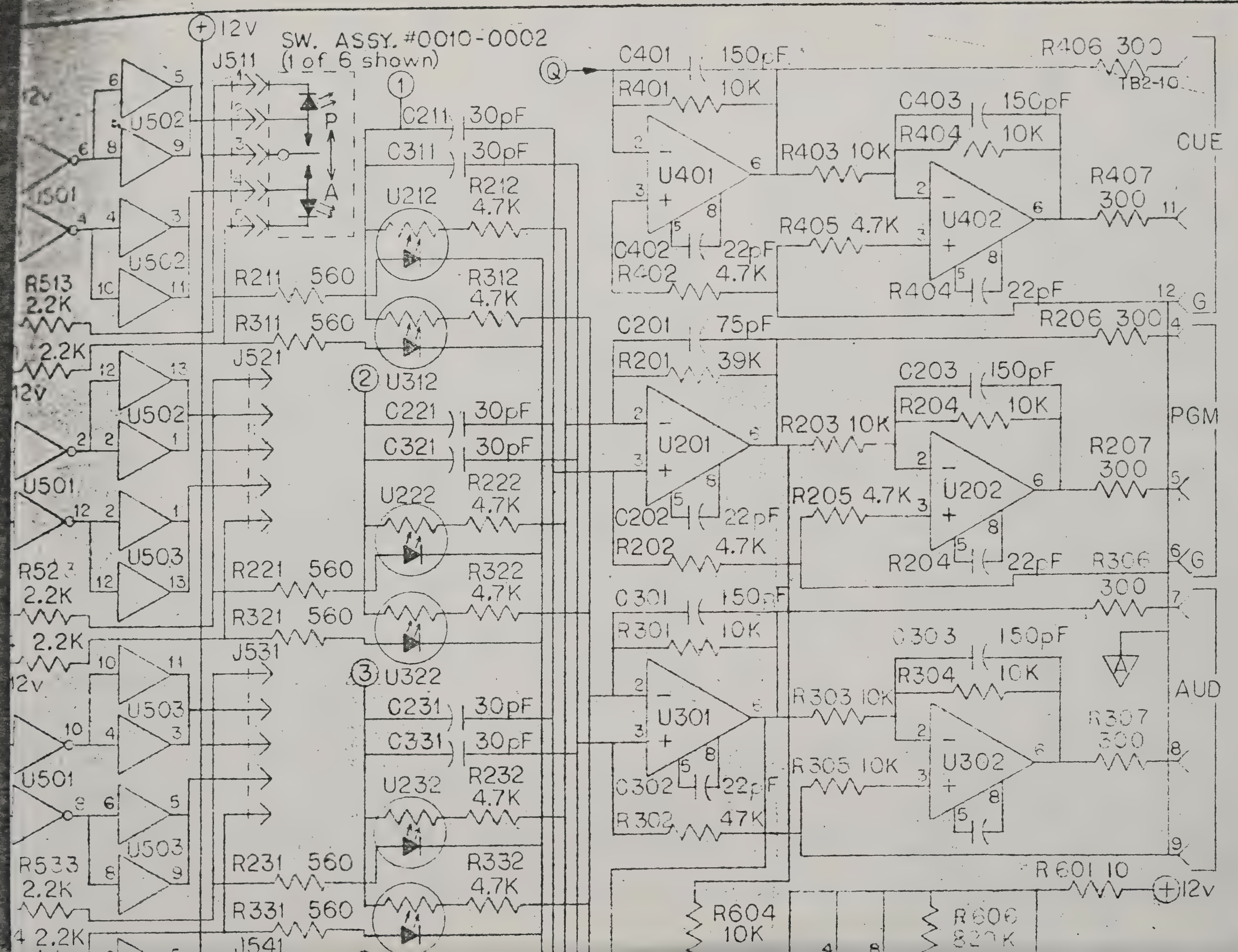
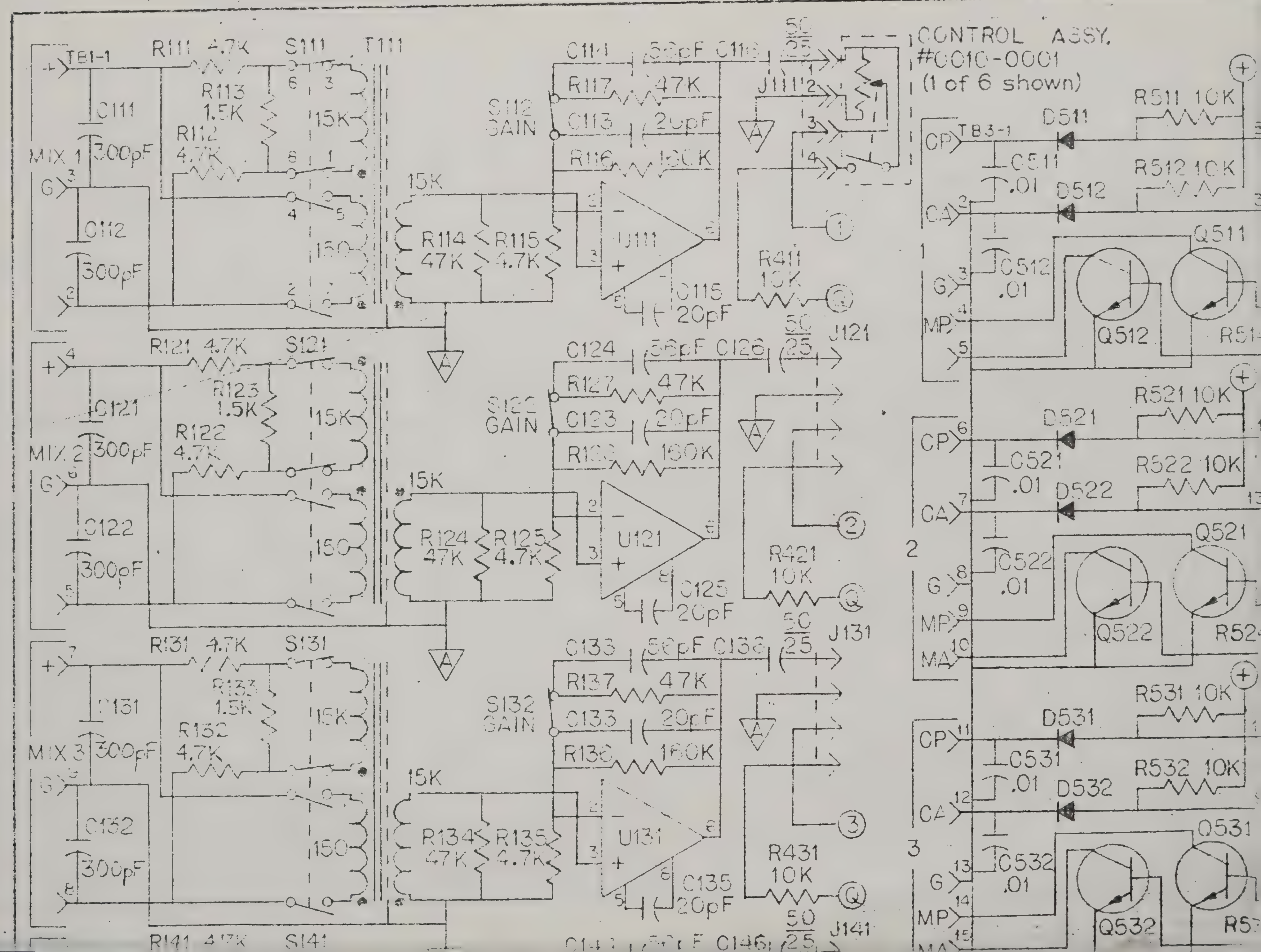
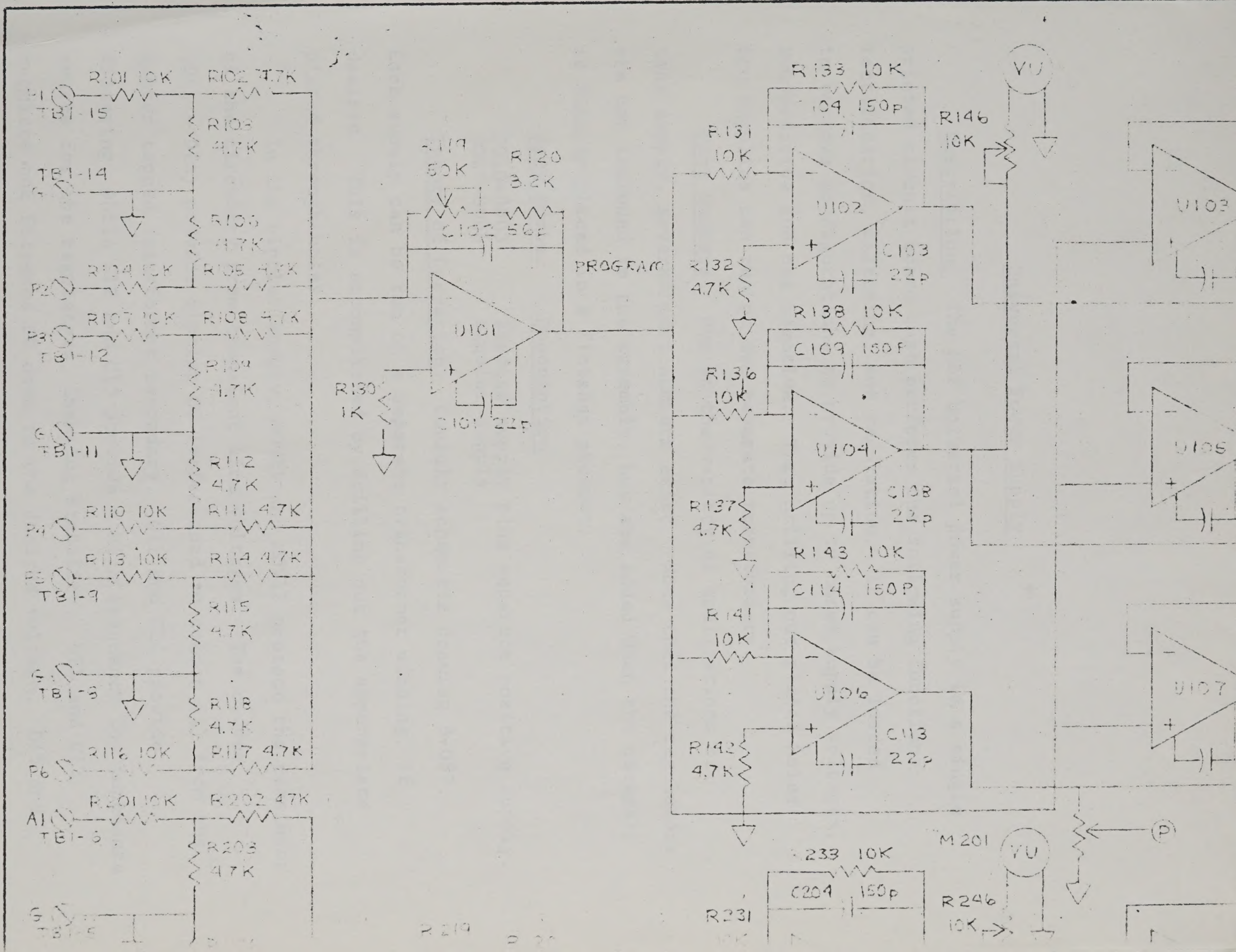
SCHEMATIC DIAGRAM - 1252MM MIXER MODULE

C-051


12V
SW. ASSY. #0010-0002
(1 of 6 shown)
J511
P
A
①
Q
C401 150pF
R401 10K
R406 300
TB2-10
C403 150pF
R404 10K
CUE
R403 10K
U401
U402
R407 300
R405 4.7K
C402 22pF
R402 4.7K
R404 22pF
12
G
C211 30pF
C311 30pF
U212
R212 4.7K
R211 560
R312 4.7K
R311 560
U312
②
J521
C201 75pF
R206 300
4
R201 39K
C203 150pF
R204 10K
PGM
U201
R203 10K
U202
R207 300
5
C221 30pF
C321 30pF
U222
R222 4.7K
R205 4.7K
C202 22pF
R202 4.7K
R204 22pF
R306 300
6
G
R221 560
R322 4.7K
R321 560
U322
③
J531
C301 150pF
R301 10K
7
C303 150pF
R304 10K
A
AUD
C231 30pF
C331 30pF
U301
R303 10K
U302
R307 300
8
U232
R232 4.7K
R305 10K
C302 22pF
R302 47K
9
R231 560
R332 4.7K
R331 560
J541
R601 10
12V
R604 10K
R606 820K
U502
U501
U503
R513 2.2K
2.2K
R523 2.2K
R533 2.2K
2.2K
12V


CONTROL ASSY.
#C010-0001
(1 of 6 shown)
TB1-1
MIX 1
MIX 2
MIX 3
G
+
R111 4.7K
R112 4.7K
R113 1.5K
S111
T111
C111
C112
300pF
15K
150
R114 47K
R115 4.7K
S112 GAIN
C113 20pF
C114
R116 160K
R117 47K
56pF C116
U111
C115 20pF
J111
50
25
R411 10K
R121 4.7K
R122 4.7K
R123 1.5K
S121
C121
C122
R124 47K
R125 4.7K
S122 GAIN
C123 20pF
C124
R126 160K
R127 47K
56pF C126
U121
C125 20pF
J121
R421 10K
R131 4.7K
R132 4.7K
R133 1.5K
S131
C131
C132
R134 47K
R135 4.7K
S132 GAIN
C133 20pF
C133
R136 160K
R137 47K
56pF C136
U131
C135 20pF
J131
R431 10K
R141 4.7K
S141
C146
J141
A
Q
1
2
3
TB3-1
CP
CA
MP
MA
C511 .01
C512 .01
C521 .01
C522 .01
C531 .01
C532 .01
D511
D512
D521
D522
D531
D532
R511 10K
R512 10K
R521 10K
R522 10K
R531 10K
R532 10K
Q511
Q512
Q521
Q522
Q531
Q532
+


P1
TB1-15
R101 10K
R102 4.7K
R103 4.7K
TB1-14
G
R106 4.7K
P2
R104 10K
R105 4.7K
P3
R107 10K
R108 4.7K
TB1-12
R109 4.7K
G
TB1-11
R112 4.7K
P4
R110 10K
R111 4.7K
P5
R113 10K
R114 4.7K
TB1-9
R115 4.7K
G
TB1-8
R118 4.7K
P6
R116 10K
R117 4.7K
A1
R201 10K
R202 47K
TB1-6
R203 4.7K
G
TB1-5
R119 50K
R120 3.2K
C102 56P
U101
R130 1K
C101 22P
PROGRAM
R133 10K
C104 150P
R131 10K
U102
R132 4.7K
C103 22P
R146 10K
VU
R138 10K
C109 150P
R136 10K
U104
R137 4.7K
C108 22P
R143 10K
C114 150P
R141 10K
U106
R142 4.7K
C113 22P
U103
U105
U107
P
M201
VU
R233 10K
C204 150P
R231
R246 10K
R219

Universal Power Supply

Description: The H&F Universal power supply is a single printed circuit board that performs the following functions: rectification, filtering, and regulation. It can be loaded in various configurations to provide up to three supply voltages, two positive and one negative. Thru drilling out plated holes, the supplies can run on two separate transformers.

Part Numbers: Due to the variety of applications of this supply, several part numbers exist. Note that the regulators are not included in the assembly, but are added when the assembly is finally placed in a finished product.

Part Number	Description
0010-0003	Bipolar supply plus separate positive supply.
0010-0004	Bipolar supply

Theory of Operation: Consult schematic drawing B-057. Each supply can be run on a separate transformer winding, if desired. This is accomplished by drilling out the appropriate plated through holes.

In the bipolar supply, MOV11 and MOV12 protect the remainder of the circuitry from transient line voltages. The diodes (D11 - D14) provide bipolar DC (referenced to common #1) from the center tapped transformer secondary. C11 and C14 provide filtering, while C12 and C15 provide a high frequency low impedance source for the regulators, insuring stability. U11 and U12 regulate the filtered DC down to the desired voltage. D15 and